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1742

IN THE US PATENT AND TRADEMARK OFFICE

August 10, 2004

Applicants: George D. Chandley, et al.

Title : TITANIUM ALUMINIDE MATERIAL RESISTANT TO  
MOLTEN ALUMINUM

Serial No.: 09/740,708

Group: 1742

Filed : December 19, 2000

Examiner: Morillo

Confirmation No. 5022

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

enter  
reply brief  
Jan  
10/28/04

BEFORE THE BOARD OF PATENT APPEALS  
AND INTERFERENCES

APPELLANT'S REPLY BRIEF

Dear Sir:

A) The examiner's Answer mailed July 14, 2004, includes on page 5 a paragraph entitled "Prolong resistance to attack" with which Applicants adamantly disagree as follows:

The examiner alleges in the paragraph that increasing the high temperature strength by adding Y as taught by the Nazmy reference to the TiAl alloy taught by the WO '973 reference would prolong resistance to attack of the alloy by molten aluminum because the alloy has greatly increased heat resistance/high temperature strength at temperature where aluminum is in the molten state.

However, Applicants note that the '442 patent teaches absolutely nothing with respect to Applicants' claimed methods set forth in claims 10-15 and 21-24 wherein resistance to attack of a titanium aluminide alloy by molten metallic material comprising aluminum is prolonged by inclusion of a rare earth element in the titanium aluminide alloy.